

eSmart3 MPPT 12/24/36/48V 20A 30A 40A 50A 60A [solar mppt controller](#)



NEW



MPPT Solar Controller 12V24V36V48V 20A-40A



Features

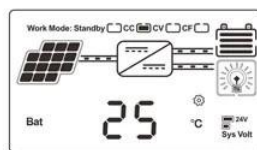
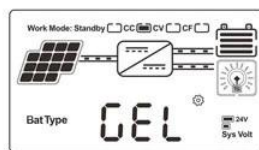
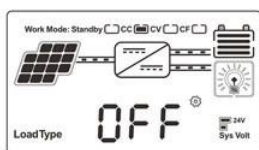
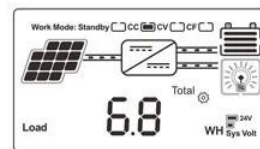
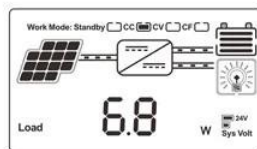
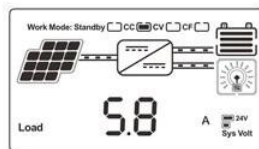
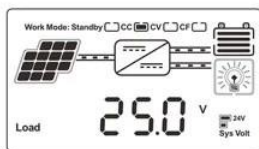
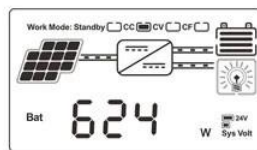
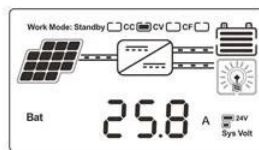
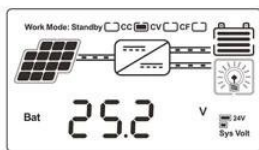
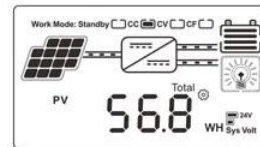
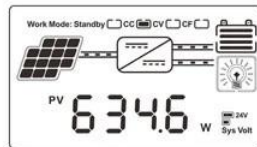
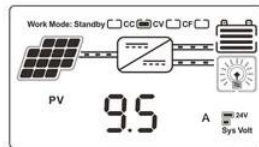
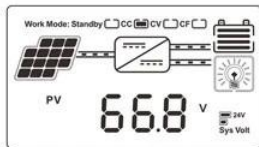
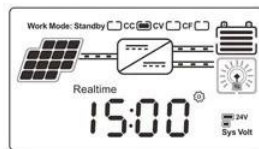
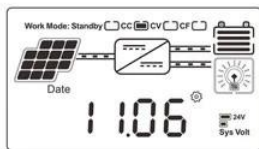
- 1.It has an efficient MPPT algorithm, MPPT efficiency $\geq 99.5\%$ and converter efficiency up to 98%.
- 2.Charge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.
- 3.Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control .
- 4.Battery system voltage automatic recognition.
- 5.Three kinds of commonly used lead-acid battery (Seal\Gel\Flooded) parameter settings fcan be selected by the user, and the user can also customize the parameters for other battery charging.
- 6.It has a current limiting charging function. When the power of PV is too large, the controller automatically keeps the charging power, and the charging current will not exceed the rated value.
- 7.High definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.
- 8.RS485 communication, we can offer communication protocol to convenient user's integrated management and secondary development.
- 9.Support PC software monitoring and WiFi module to realize APP cloud monitoring.
- 10.CE, RoHS, FCC certifications approved, we can assist clients to pass various certifications.
- 11.2 years warranty, and 2~10 years extended warranty service also can be provided.

[MPPT Controller](#) connection diagram

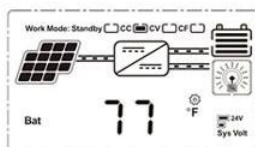
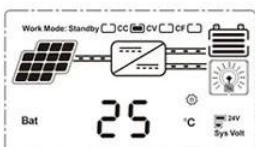
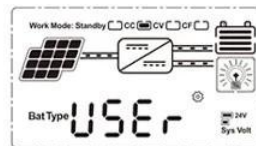
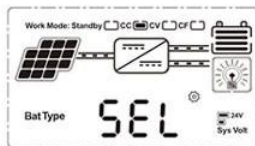
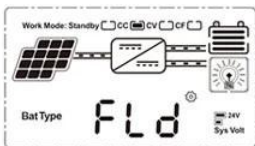
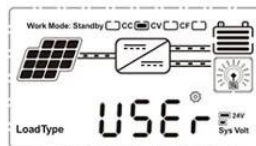
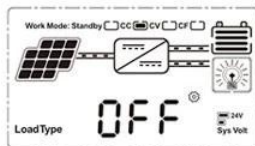
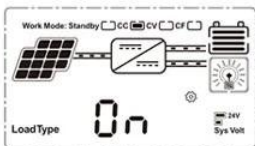
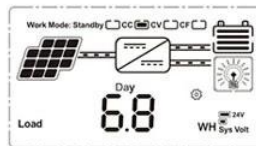
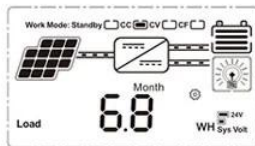
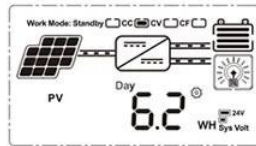
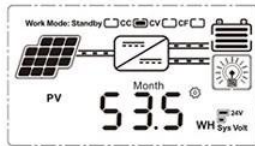
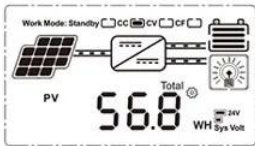
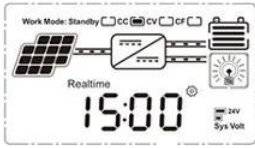
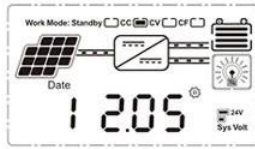
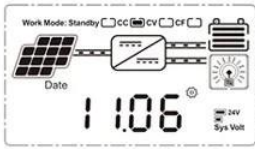
Off Grid Solar System CPU



Parameters Display & Setting information



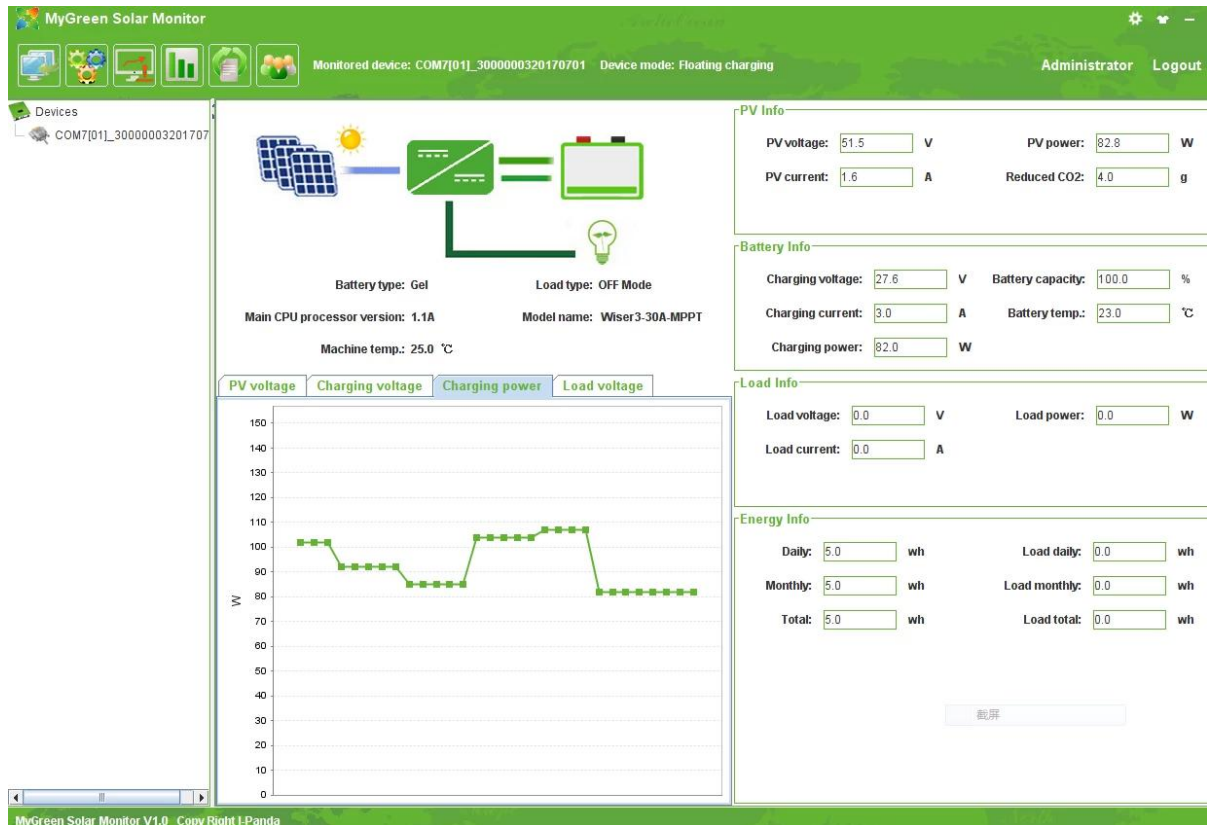
LCD display information



On	Mean "ON"	FLD	Mean "FLD"
OFF	Mean "OFF"	GEL	Mean "GEL"
USER	Mean "USER"	SEL	Mean "SEL"

Set the battery type and LOAD control mode

Upper Computer Software & Test Software



PC software_SolarEagle

Visual display of charge and discharge status, PV voltage, charge voltage, charge current, and can set the battery type, LOAD output control;

Parameter

eSmart3 series		20A	30A	40A	50A	60A	
Product category	Controller Properties	MPPT (maximum power point tracking)					
	MPPT efficiency	≥99.5%					
	Standby power	0.5W~1.2W					
	System voltage	Automatic recognition					
	Heat-dissipating method	Intelligent fan cooling					
Input Characteristics	Max.PV input voltage(VOC)	DC150V					
						Start the charge voltage point	Battery voltage + 3V
	Low input voltage protection point	Battery voltage + 2V					
	Over voltage protection point	DC150V					
	Rated PV power	12V system	260W	390W	520W	650W	780W
		24V system	520W	780W	1040W	1300W	1560W
		36V system	780W	1170W	1560W	1950W	2340W
48V system		1040W	1560W	2080W	2600W	3120W	
Selectable Battery Types		Sealed lead acid, Gel battery, Flooded					
(Default Gel battery)	(Other types of the batteries also can be defined)						
Charge rated current	20A	30A	40A	50A	60A		
Charge Method	3-Stage: constant current(fast charging)-constant voltage-floating charge						
LOAD Characteristics	Load voltage	The same as the battery voltage					
	Load rated current	40A		60A			
	Load control mode	On/Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode					
Display & Communication	Display mode	High-definition LCD segment code backlight display					
	Communication mode	8-pin RJ45 port/RS485/support PC software monitoring/ support WiFi module to realize APP cloud monitoring					

Other Parameters	Protect function	Input-output over \ under voltage protection, Prevention of connection reverse protection,battery shedding protection etc.	
	Operation Temperature	-20°C~+50°C	
	Storage Temperature	-40°C~+75°C	
	IP(Ingress protection)	IP21	
	Max. connection size	20mm2	30mm2
	Net Weight (kg)	2.3	2.6
	Gross Weight (kg)	3	3.5
	Product Size[mm]	240*168*66	270*180*85
	Packing Size(mm)	289*204*101	324*223*135